Those of you who are starting with us with this volume may be interested in a very short history. The Bally Arcade was first advertised by the Chicago mail order house of JS&A in such magazines as Popular Science, Scientific American, the airline freebies and a couple of others in Sept/Oct. of 1977. In the two page ad, delivery was promised in four weeks and the expansion unit was indicated to be available in 6 weeks, so that a complete and highly sophisticated computer would be shotly available at a \$600 price range. The Tinv BASIC showed up in October 1978, and I started this subscription newsletter in Nov. We have yet to see the expansion unit (Add On)(Level III), but in the last year a number of doors have been unlocked in the Tiny BASIC and subscribers, as a group, are the only ones able to expand their programs and enhance their operations. This Newsletter is the only established source of free programs, and

PRINTER OUTPUT. I GUESS YOU NOTE THE UNUSUAL TYPE IN THIS PARAGRAPH; THIS IS BEING TYPED VIA MY NEW Comprint 912S PRINTER UNDER DIRECT CONTROL OF THE BALLY. I HOPE TO PRINT MORE OF THE ARCADIAN THIS WAY IN THE FUTURE - THIS IS A SAMPLE TO WHET YOUR APPETITE. THIS MACHINE WAS ADVERTISED ON THE INSIDE FRONT COVER OF THE JULY KILOBAUD. COST IS \$699 RETAIL, BUT I HAVE A SOURCE FOR IT AT \$525 FOB SAN JOSE (PLUS CAL TAX IF APPLICABLE). FULL DETAILS NEXT TIME.

provides a place for those wishing to market their outputs.

SAUCER BATTLE

BY JOHN HURST

9/79

10 - 100 Initialize and Input mode of play. Draw stars and print scoring. 200 - 290 Draw saucers and allow control by hand controls. Two player game. 300 - 495 One player against computer. Draw saucers, left for player, right for computer. Computer random positioning and movement. Set ups for computer or TR(1) firing. 500 - 530 Set ups for TR(1) or TR(2) firing in two player mode. 540 Back to two player program if neither saucer fires LASER. 600 - 680 Fire left saucer's LASER, if a hit goto blowup routine, if not go back to one or two player routine, whichever is in use. 700 - 780 Same as 600, but for right saucer. 800 - 860 Blowup right saucer, back to main program in use. Upgrade score. 900 - 960 Blowup left saucer, back to main program in use. Upgrade score. 1000 -1010 Print GAME OVER. If GO key is pressed, goto line 10 to play again.

This game can be played by two or one, (against the computer). Difficulty of hitting target can be selected, $\beta\!\rightarrow\! 1$, β being the hardest. Amount of LASER blasts and Max Score to win can be selected. If one player option is selected, accuracy of the computer can be set, $\beta\!\rightarrow\! 2$, β being the most accurate. If the computer fires when accuracy is β , it will not miss. If both triggers are pulled at the same time, neither will fire, in two player option. If remaining LASER blasts are five or less, an open hole will appear in the center of the saucer that is low on charge. When all charge for LASER is depleted for one saucer, he can no longer fire. If both saucers are depleted of charge, or Max Score is reached by one saucer, game is over. To play again just press 60 key.

The memory use of this game is very close to the max available to the Bally, so care should be used when entering this program. Use no spaces unless necessary, the listing may have extra spaces due to my typing. If you don't need them, don't use them. Also deleting lines 1 - 5 can save some memory if needed. Good Luck.

John R. Hurst

a	r	C	2	d	0	a	n
a		V	a	u	ı	C	

DOMESTIC OF THE PROPERTY OF TH
Line # & (23)=255 \$\frac{\text{Right}}{\text{Right}} = 255 730 Line 73s bs 4; Line-75s bs 3; Line 73s bs 4; Line-75s bs 3; Line 73s bs 4; Line-75s bs 3; Line 740 Line 75s bs 4; Line 75s bs 4; Line 710 To 710 740 Line 72s bs 4; Line 710 To 710 740 Line 72s bs 4; Line 710 To 710 740 Line 72s bs 4; Line 710 To 700 740 Line 72s bs 4; Line 72s bs 80x-75s ks 4 740 Line 75s bs 4; Line 75s bs 7; 820 Ecr F=1 To 10; ks 43 gos 08900 740 Ecr F=2 To 10; ks 43 gos 08900 820 Ecr F=1 To 10; ks 43 gos 08900 820 Ecr F=1 To 10; ks 43 gos 08900 820 Ecr F=1 To 10; ks 43 gos 08900 820 Ecr F=1 To 10; ks 43 gos 08900 820 Ecr F=1 To 10; ks 8 2; print 1 820 Muse ""; Mext F; Fc=126; ks 8 1 920 Ecr F=10; cx 2-11; cx 2; print 1 920 Ecr F=10; cx 2-11; cx 2; print 1 920 Ecr F=10; cx 2-11; cx 2 2; print 1 920 Ecr F=10; cx 2 2; print 1
Line # 310 IF F>=U-5 BOX-75, K, 2, 2, 3 320 BOX-75, K, 4, 4, 3; BOX75, D, 4, 4, 4, 10 IF F=U GOTO 460 420 IF F=U GOTO 440 420 IF F=U GOTO 440 420 IF F=U GOTO 460 420 IF F=U GOTO 310 420 IF F=U GOTO 320 420 IF FXD-1 IF KXD+1 GOTO 700 420 IF FXD-1 IF KXD+3 GOTO 700 420 IF FXD-1 IF KXD+3 GOTO 700 420 IF FXD-1 IF KXD+3 GOTO 700 420 IF FXD-3 IF KXD+4 GOTO 700 520 IF FXD-6 IF KXD+2 GOTO 700 520 IF FXD-6 IF KXD+2 GOTO 700 520 IF FXD-6 IF KXD+2 GOSOBODO 620 INE-73, K, 4, LINE75, D, 4, LINE 75, LINE 620 IF KXD-3 IF KXD+3 GOSOBODO 620 GOTO 650
LINE # .*SAUCER BATTLE* LINE # .*SAUCER BATTLE* - \$ 9 79 - BY JOHN HURST - \$ 9 79 - BY JOHN HURST - \$ 9 79 - \$ 9 79 - \$ 9 79 - \$ 9 79 - \$ 9 79 - \$ 9 79 - \$ 9 79 - \$ 9 79 - \$ 9 79 - \$ 100 20

ANOTHER PRINTER has been successfully connected to the Bally, writes John Hurst. He has a Victor Model 1250 that uses 3 3/4" wide adding machine tape, with 34 characters per line. John sent some sample material, but the print was blue and wouldn't reproduce. He also needs the little converter that was shown on p.47 of Vol. 1.

NOSTALGIATor those who can recall some of the older Bally gaming machines. This antique was included in an auction held at Disneyland in late November.



Bally Sparkplug Paying Horse Race Game.

DECIMAL DIVISION is a version by Laurence Gallant that will give you up to 32,676 decimal places (the variable Z).

	PROGRAM	NAME LOGO
L DECIMAL DIVISION	Line #	Statement(s)
5 BY L. GALLANT	10	CLEAR DE ROSS DE LOS DE LA COMPANION DE LA COM
	20	W/01=37
	AA	FOR A-1 TO 1Ed
40 FOR B=1 TO Z	50	H=RND (160)-80: V=RND (88)-44
	60	RAY U V 1 1 Dub (a)
	70	NEXTA
7.0 N.E.X.T. B.	80	L(a) = 85.2(1) - 25d
	90	&(2)=108;&(11)=250
		CX = -4.4; C.Y = 6
LOGO shown at the head of		PRINT" ARCADIAN
page ONE is based on an idea		
by Guy McLimore, and embellished		LINE O, O, A
by myself. If you'd like to see		FOR Q= Ø TO 35 STEP 2
it in action (literally) and		LINE 75,0,3; LINE 0,0,4
in living color, the program		LINE 759-Q93; LINE, 0,0,4
is included.	1.60	NEXTQ
		L=7; FOR Z=48 TO 51
		Box - 7, 6, 1, L, 1
		L=L-2
		NEXT Z
	2.1.0	Box -22,0,56,9,3
		FOR G = \$ TO 35
		LINE 75, Q, 3; LINE \$, \$, 4
	240	LINE 75, -9,3; LINE 0, 4,4
		NEX.T. Q
	260	GaTO 220

THREE

PROGRAM REVIEWS are being covered in detail in this first issue of Vol.2 in order to act as a reference base for future material. Dick Houser 635 Los Alamos Ave., Livermore, CA 94550 is heading up a team consisting of

Steve Wilson 18015 Sally Ave. Cleveland OH 44135
Don Daniels 3 Apex Road Melville NY 11746
Bill Rueger 336 Beach 38th St Far Rockaway NY 11691
Phil Shafer 3708 Big Horn Trail Plano TX 75075

These gentlemen will accept programs which are offerred FOR SALE by various vendors, and will subject the programs to hands-on operation, review these and then report their findings on the quality of subject matter, documentation, etc., per the form shown on page FOUR. The reviews that appear in the ARCADIAN will be abbreviated to show only the rating answers. Program vendors are being contacted directly by Dick, based on ads run previously. If you are a 'new' vendor, please drop him a line if you are interested in having impartial reviews of your product.

CORRECTIONS of previous programs:

Dick Nitto, who wrote the article "Have a Ball with Bally" in the latest KILOBAUD writes about dropouts in two of the lines in the program he had included there- They should read

270 GOSUB 440; IF G=1 GOTO 330 280 IF S=0 R=R+1; GOTO 330

He also writes that an easier version is possible if you substitute 260 IF X<3 IF X>-3 IF Y<3 IF Y>-3 GOTO 300 440 IF X<4 IF X>-4 IF Y<4 IF Y>-4 A=520; G=1; GOTO 460

MICROTREK needs to be corrected to 200 CLEAR; C = E-S; IF $C \not D C=-C$ 220 $Q=\not D$; IF C 2 IF G 2 Q=1

and Bill Templeton suggests the following color commands for enhancement. Insert them in each line just before the RETURN command -

700 FC = \emptyset ; 710 FC = $9\emptyset$; 720 FC = 172; 730 FC = 133;

SPACE WAR as printed on p.79 had two points needing work, writes John Johnson. The asterisk (*) in lines 300 and 500 should be changed to the x for multiplication. In line 820, the Y-5 should be T-5

RESEQUENCING apparently does not work on all machines. We noted on p. 25 that there were at least two variations of Bally software. We'll work on this to see what changes might have to be made.

CHECKER as modified on p.90 has a typo of mine, in that the @(5) in line 260 should be @(S).

TUTORIAL (3) on p.41 is called a real space saving help by John Collins, who suggests adding an equals sign to line 9030 so that it reads

9030 PRINT #1,"=",%(20076 + (Zx2))

This form is used by the reviewer in doing his job, showing what things he will be looking for and the gradations possible. The very bottom of the form is what will appear in the ARCADIAN. You can refer back to this page to refresh your memory on the ratings.

Source Code Cassette Code Program Code BPRF4											
BALLY PROGRAM REVIEW											
Name of Frosram: Description: Source: Reviewed by:											Price
Circle score for each item											
PROGRAM DOCUMENTATION (PD)	1										
No Instructions	0	1	2	3	4	5	6	7	8	9	Very Clear Description Listing, Flowchart, Instructions
PROGRAM POLISH (PP)											
Sloppy, Amateurish	0	1	2	3	4	5	6	7	8	9	Professional
USE OF SPECIAL FEATURES (USF)											
Minimal Used	0	1	2	3	4	5	6	7	8	9	Great Use of Features Graphics, Sound, Handles
LEVEL OF CHALLENGE (LC)											
Not Challensins	0	1	2	3	4	5	6	7	8	9	Very Challensins
ORIGINALITY AND CREATIVITY (OC)											
Adapted, Same Old Stuff	0	1	2	3	4	5	6	7	8	9	Totally Brilliant and Unique
LEVEL OF INTEREST (LI)											
Borins	0	1	2	3	4	5	6	7	8	9	Fascinatins
EDUCATIONAL VALUE (EV)											
Little	0	1	2	3	4	5	6	7	8	9	Really Learn Facts and Skills
EASE OF USE (EU)											
Awkward, Inconvenient	0	1	2	3	4	5	6	7	8	9	Eass, Quick, Convenient
OVERALL VALUE (OV)											
Almost Worthless	0	1	2	3	4	5	6	7	8	9	Everyone Should Bus
Name of Program:						-					Cassette Name:Price
Ratings : PD= PP= U Time to Play Fo	CE	con-			-		111.	=		1 ==	EV

"ARCADE DICE" by KLAUS GRISHATER

420NU=49; NU=51; NU=53; NU=98; NU=49; NU=48; NU=53; \$600SUB786; INPUT"# OF PLATERS: "P; IF PA P=4 pogosub 146, Print" # # # # You lose # # # MAKE SELECTION NU-98; NU-49; NU-48; NU-48; NU-48; NU-48 PPRINT; PRINT" * * * ARCADE DICE * * * PPRINT; PRINT; PRINT" 1 ELECTRONIC DICE PPRINT; PRINT 2 ELECTRONIC CRAPS CAME 50IF&(23)=8 CLEAR; GOTO 100 50IF&(22)=8 CLEAR; K=1; T=0; COTO150 19ølfæ(22)=16 goro 5 2øøgosubl4ø;Print" bet:\$",#3,M, ØIFF=1 K=1; GOSUB 866; GOTO116 290IF S=12 GOSUB 520;GOTO400 260IF S=11 GOSUB 510; GOTO600 Spir A-7 Gosub 546; Goto466 270IF S=2 GOSUB 520;GOTO400 34pif A=s Gosub 53p; Goto6pp 250IF S=7 GOSUB 516; GOTO600 160BOX 0,30,80,9,2 170BOX 0,40,160,8,2 180M=((KN(1)+128)\28)+1 CLEAR; NT=0; FC=84; BC=24 40CX =- 75; CY = 40; RETURN =6 GOTO 186 PRINT: PRINT: PRINT" L. ARCADE DICE 23pgosub 5pp 220GOSUB 80 36ggoro 31g 326GOSUB566 21ØIF TR(1 1 dGOSUBBO 200TOTOTOS 130A=L+R. 3: RETURN SGOTO56 43ØNT= Ø 110NT=8 SØNT=1

6ØØGOSUB 14Ø;PRINT"\$\$\$\$\$\$\$ A WINNER \$\$\$\$\$\$\$\$ 63pmu=51; MU=48; MU=53; MU=48; MU=48; MU=51; MU=52; 75ØIF@(K)>@(K+1) IF@(K)>@(K+2) IF@(K)>@(K+3) GOSUB780; PRINT"PLATER #",#2,K," WINS ",; 20GOSUB780; PRINT"PLATER #",#2,K," ROLLS", NU=48; NU=53; NU=48; NU=48; NU=48 7ØFORZ=1TO2ØØ; I=I+1; NEXTZ; I=Ø; GOTO7ØØ 826CX=6; CI=46; PRINT"# OF ROLLS: ",#2,N, 836IFTR(K)=6 GOTO866 14pcx=-75; CT=-40; PRINT" LOST \$",#3,M, 65\psi cx=-75; cI=-4\psi; PRINT" WIN \$",#3, M, 850BOX-40,0,44,44,1;BOX-40,0,42,42,2 870BOX46,6,44,44,1;BOX46,6,42,42,2 880R=RND(6);X=46;GOSUBS96+(Rx16) 86øL-RND(6); X--4ø; GOSUBB9ø+(Lx1ø) 6ØCX=Ø;PRINT"YOU HAVE \$",#3,T, ",; RETURN ", RETURN popor K=1TOP+3;@(K)=ø;NEXTK I PPRINT"A NATURAL",; RETURN 36GOSUB866;@(K)=L+R;NEXTK 81ØNT=1;IF&(22)=16 GOTO 5 20PRINT"CRAPS",; RETURN 786cx=-46; cr=-46; return 866n=7-((kn(k)+128); 42) 500CX=-20; CY=30; RETURN 89ØNEXTD; NT=1; RETURN 58ØI=I+1; NEXTZ; I=Ø 54¢PRINT"CRAP OUT 84 ØNT=20; FORD=1TON 3ØPRINT"A MATCH STOFOR Z=1TOIGG 64 GNEXT Z; NT=\$ 10FORK=1TO 74 OFORK=1TO P 62ØFORZ=1T02 GOTO77Ø 6000TO550 66¢GOTO55¢ 596GOTO156 SOT=T+M **76ØNEXTK**

9\$\$GOSUB96\$| RETURN 91\$GOSUB97\$| RETURN 92\$GOSUB97\$| GOSUB97\$| RETURN 93\$GOSUB97\$| GOSUB98\$| RETURN 94\$GOSUB97\$| GOSUB98\$| GOSUB98\$| RETURN 95\$GOSUB97\$| GOSUB98\$| GOSUB99\$| RETURN 95\$BOX X+12,12,6,6,1;BOX X-12,-12,6,6,1; RETURN 98\$BOX X-12,12,6,6,1;BOX X+12,-12,6,6,1; RETURN 99\$BOX X-12,12,6,6,1;BOX X+12,-12,6,6,1; Keep all the spacing tight (except inside the quotation marks, they should be as shown above) even though it was typed a little inconsistently. The program uses almost all of the BASIC UNIT's memory. The command PRINT SZ must indicate at least 14, if not, eliminate lines 1 & 2.

if not, eliminate lines 1 \$ 2.

winning and losing combinations LINES 400 - 460 is the loser routine for craps 600 -650 is the winner routine for craps on the dice, determining both give player total and returns LINES 700 - 730 enters each player's roll on LINES 220 - 360 compares the numbers rolled LINES 500 - 540 specify winning and losing of players for electronic LINES 140 - 210 sets up player bet for The program operates as follows: LINES 100 - 120 selects the number electronic dice LINES #1 - 70 set up the menue for next bet combinations craps game dice LINES 550 -590 LINES

LINES 800 - 830 selects number of times dice roll
LINES 840 - 890 roll dice (random selection)
and drawm frame for dice
LINES 900 - 950 select dot combinations
LINES 960 - 990 draw dots on dice

ARCADE DICE is played with the hand controls. First menu selection allows up to four players to play in rotation, just enter the number of players, then press go. Number of rolls is selected by knob on hand control, pulling the trigger will begin the rolling. After the combination is displayed, control shifts to the next hand control. After everyone has thier turn, the winner is immediately selected.

The second menu selection allow player to place bet with knob and trigger, then number of rolls is selected as above. Score is automatically indicated.

To return to menu, press Zero (0) on keypad. This can only be done during selection stages of rolls or bet, which reset automatically. This program can be modified using the separate sections in other combinations, or modifying the size and location of the dice. Electronic dice can replace regular dice in board games, by keeping track of whose turn it is (everyone gets thier own control, but cannot move out of turn). I hope this will give someone certain possiblities.

Ment Bumayer Klaus Grismater 320 Hanna Ave., Bldg. 3, Apt. 8 LOVELAND, OH 45140

LIMES 740 - 780 selects the winner for electronic

dice (highest combination)

MACHINE ACTING UP? Most of us have had problems of intermittent failure, garbage on the screen, keypad or controller malfunction, etc. Bally has set up a number of service centers around the country, primarily to take care of their commercial arcade machines, and most problems are solved by a simple swap of units. New units didn't always work and so some subscribers have had 5,6, or 7 units before they got a good one. I'm on #3 myself. Gunther Dorth, 154 Cornell Ave., Des Plaines, IL 60016 has volunteered to act as a clearing house, requesting information from those of you who have had problems, had them solved, still have them, etc., etc. When writing, send him your serial number.

POKE program that does funny things was sent in by Dick Martin. It keeps changing its own line numbers, and other stuff....

10 INPUT A

20 %(A)=A

30 TV = %(A)

40 GOTO 10

TAPE PROGRAM PURVEYORS might be interested in trying this idea I had the other day - How about a vocal description prior to the program itself, and then some vocal instructions after the program has been loaded. Put some suitable instructions where they will help.

ADS: Sell Bally Computer System complete, includes Panzer/Baron, Clowns, Breakout, Football, Star Battle, Blackjack, Baseball and 4 joysticks. Best offer about \$300. Brand New. Mark Turmell, 4691 S. Elm Dr. Bay City, Mich, 48706 517-684-9189

Listing only for Chuck-a-Luck, a one-player gambling game with graphics. \$1 and self-addressed envelope to Al Nowak, 10632 S.Kenneth, Oak Lawn IL 60453

CORRECTION to the Handbook (sample page on p.83) noted by Chuck Thomka. On p.109, the labels of columns MCØ and MC1 should be reversed. The same table is properly shown on p.123

EIGHT

ARCADIAN

Robert Fabris, PRINTER 3626 Morrie Dr. San José, CA 95127

